

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/528, 845 A  
Source: PCT  
Date Processed by STIC: 02/02/2006

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PCT

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/528,845A**

**DATE: 02/02/2006**  
**TIME: 11:42:24**

**Input Set : A:\00185660.ST25.txt**  
**Output Set: N:\CRF4\02022006\J528845A.raw**

3 <110> APPLICANT: DSM IP ASSETS B.V.  
 5 <120> TITLE OF INVENTION: A Gene Encoding Vitamin B6 Phosphate Phosphatase And Use  
 Thereof  
 7 <130> FILE REFERENCE: 21419 US (C038435/0185660)  
 9 <140> CURRENT APPLICATION NUMBER: 10/528,845A  
 C--> 10 <141> CURRENT FILING DATE: 2005-03-23  
 12 <160> NUMBER OF SEQ ID NOS: 12  
 14 <170> SOFTWARE: PatentIn version 3.3  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 20  
 18 <212> TYPE: PRT  
 19 <213> ORGANISM: Sinorhizobium meliloti  
 21 <400> SEQUENCE: 1  
 23 Ala His Ala Ile Asp Tyr Ser Val Val Pro Ala Asp Pro Ala Leu Gly  
 24 1 5 10 15  
 27 Glu Ala Ile Lys  
 28 20  
 31 <210> SEQ ID NO: 2  
 32 <211> LENGTH: 14  
 33 <212> TYPE: PRT  
 34 <213> ORGANISM: Sinorhizobium meliloti  
 36 <400> SEQUENCE: 2  
 38 Ile Asp Thr Ala Asn Ala Val Met Phe Glu Asp Leu Pro Arg  
 39 1 5 10  
 42 <210> SEQ ID NO: 3  
 43 <211> LENGTH: 23  
 44 <212> TYPE: PRT  
 45 <213> ORGANISM: Sinorhizobium meliloti  
 47 <400> SEQUENCE: 3  
 49 Asp His Gly Thr Thr Leu Gln Gly Leu Met Leu His His Gly Ile Asp  
 50 1 5 10 15  
 53 Pro Asn Asp Phe Leu Glu Arg  
 54 20  
 57 <210> SEQ ID NO: 4  
 58 <211> LENGTH: 10  
 59 <212> TYPE: PRT  
 60 <213> ORGANISM: Sinorhizobium meliloti  
 62 <400> SEQUENCE: 4  
 64 Met Lys Lys Leu Asp Arg Met Pro Thr His  
 65 1 5 10  
 68 <210> SEQ ID NO: 5  
 69 <211> LENGTH: 21  
 70 <212> TYPE: DNA  
 71 <213> ORGANISM: Artificial Sequence

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73 <220> FEATURE:  
 74 <223> OTHER INFORMATION: Primer CN02  
 77 <220> FEATURE:  
 78 <221> NAME/KEY: misc\_feature  
 79 <222> LOCATION: (12)..(12)  
 80 <223> OTHER INFORMATION: n is inosine  
 82 <220> FEATURE:  
 83 <221> NAME/KEY: misc\_feature  
 84 <222> LOCATION: (18)..(18)  
 85 <223> OTHER INFORMATION: n is inosine  
 87 <400> SEQUENCE: 5  
**W--> 88 atgaaraary tngaymgnat g** 21  
 91 <210> SEQ ID NO: 6  
 92 <211> LENGTH: 20  
 93 <212> TYPE: DNA  
 94 <213> ORGANISM: Artificial Sequence  
 96 <220> FEATURE:  
 97 <223> OTHER INFORMATION: Primer C642  
 100 <220> FEATURE:  
 101 <221> NAME/KEY: misc\_feature  
 102 <222> LOCATION: (12)..(12)  
 103 <223> OTHER INFORMATION: n is a, g, c or t  
 105 <220> FEATURE:  
 106 <221> NAME/KEY: misc\_feature  
 107 <222> LOCATION: (15)..(15)  
 108 <223> OTHER INFORMATION: n is a, g, c or t  
 110 <400> SEQUENCE: 6  
**W--> 111 tcytcraaca tncangcrtt** 20  
 114 <210> SEQ ID NO: 7  
 115 <211> LENGTH: 21  
 116 <212> TYPE: DNA  
 117 <213> ORGANISM: Artificial Sequence  
 119 <220> FEATURE:  
 120 <223> OTHER INFORMATION: Primer C101  
 122 <400> SEQUENCE: 7  
 123 gccgaattcg cccatgtcac c 21  
 126 <210> SEQ ID NO: 8  
 127 <211> LENGTH: 21  
 128 <212> TYPE: DNA  
 129 <213> ORGANISM: Artificial Sequence  
 131 <220> FEATURE:  
 132 <223> OTHER INFORMATION: Primer C102  
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 135 cgccgtgtcg atgcgtgaa g 21  
 138 <210> SEQ ID NO: 9  
 139 <211> LENGTH: 708  
 140 <212> TYPE: DNA  
 141 <213> ORGANISM: Sinorhizobium meliloti  
 143 <400> SEQUENCE: 9

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144	atgaagaagc	tcgaccgcac	gccgacccac	gccgaattcg	cccatgtcac	cgactgggtc	60
146	tgcacctcg	acaacacgct	ctatccgcac	cacgtcaatc	tgttctcaca	gatcgaccgc	120
148	aacatgacgg	cctatgtgc	cgaactcctg	tcgctggagc	ctgcggaggc	gaagaagctg	180
150	cagaaggaat	actaccgcga	ccacggcacc	acgcttcagg	gcctgatgct	tcatcacggc	240
152	atcgatccca	atgatttcct	cgaaagagcc	cacccatcg	actatacgct	ggtgccggcc	300
154	gatccggcgc	tcggcaggc	gatcaaggcg	ctgcccggac	gcaagtccat	ttcaccaac	360
156	ggcagcgtcg	cccatgcgga	gatgaccgcg	cgggcgtcg	gcattctcga	gcatttcaac	420
158	gacatctcg	acatcgctcg	cggccggcttc	ataccgaagc	ccgcccggcga	cacctacgac	480
160	aagttcatgg	gccttcaccg	catcgacacg	gcgaatgagg	tgtatgttcga	ggatctgccc	540
162	cgcAACCTGG	tcgtccctaa	ggcgtcggc	atgaagacgg	tgctgctcg	gcccggcata	600
164	ctcgaatacg	agttcgccga	ggcctggaa	acgtcgagcg	acgcggacga	tcagatcgac	660
166	tacgtcacgg	aagacctggc	gggtttcctg	cgcagtgtga	ttgttttag		708
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170	<211>	LENGTH:	235				
171	<212>	TYPE:	PRT				
172	<213>	ORGANISM:	Sinorhizobium meliloti				
174	<400>	SEQUENCE:	10				
176	Met Lys Leu Asp Arg Met Pro Thr His Ala Glu Phe Ala His Val						
177	1	5	10	15			
180	Thr Asp Trp Val Phe Asp Leu Asp Asn Thr Leu Tyr Pro His His Val						
181		20	25	30			
184	Asn Leu Phe Ser Gln Ile Asp Arg Asn Met Thr Ala Tyr Val Ala Glu						
185		35	40	45			
188	Leu Leu Ser Leu Glu Pro Ala Glu Ala Lys Lys Leu Gln Lys Glu Tyr						
189		50	55	60			
192	Tyr Arg Asp His Gly Thr Thr Leu Gln Gly Leu Met Leu His His Gly						
193		65	70	75	80		
196	Ile Asp Pro Asn Asp Phe Leu Glu Arg Ala His Ala Ile Asp Tyr Ser						
197		85	90	95			
200	Val Val Pro Ala Asp Pro Ala Leu Gly Glu Ala Ile Lys Ala Leu Pro						
201		100	105	110			
204	Gly Arg Lys Phe Ile Phe Thr Asn Gly Ser Val Ala His Ala Glu Met						
205		115	120	125			
208	Thr Ala Arg Ala Leu Gly Ile Leu Glu His Phe Asn Asp Ile Phe Asp						
209		130	135	140			
212	Ile Val Ala Ala Gly Phe Ile Pro Lys Pro Ala Gly Asp Thr Tyr Asp						
213		145	150	155	160		
216	Lys Phe Met Gly Leu His Arg Ile Asp Thr Ala Asn Glu Val Met Phe						
217		165	170	175			
220	Glu Asp Leu Pro Arg Asn Leu Val Val Pro Lys Ala Leu Gly Met Lys						
221		180	185	190			
224	Thr Val Leu Leu Val Pro Arg Asn Leu Glu Tyr Glu Phe Ala Glu Ala						
225		195	200	205			
228	Trp Glu Thr Ser Ser Asp Ala Asp Asp Gln Ile Asp Tyr Val Thr Glu						
229		210	215	220			
232	Asp Leu Ala Gly Phe Leu Arg Ser Val Ile Val						
233		225	230	235			
236	<210>	SEQ ID NO:	11				
237	<211>	LENGTH:	32				

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238 <212> TYPE: DNA  
239 <213> ORGANISM: Artificial Sequence  
241 <220> FEATURE:  
242 <223> OTHER INFORMATION: Primer P101  
244 <400> SEQUENCE: 11  
245 gaagcttccc gggccgtgtc ataaaaccgc cc 32  
248 <210> SEQ ID NO: 12  
249 <211> LENGTH: 32  
250 <212> TYPE: DNA  
251 <213> ORGANISM: Artificial Sequence  
253 <220> FEATURE:  
254 <223> OTHER INFORMATION: Primer P102  
256 <400> SEQUENCE: 12  
257 caagcttccc gggatcatcg ccgggtttta cg 32

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 02/02/2006  
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 12,18  
Seq#:6; N Pos. 12,15

**VERIFICATION SUMMARY**

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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0